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IS 6829 (1991): Dental Instruments - Orthodontic Pliers, Angle Wire Bending - Shape, Dimensions and Tests [MHD 8 : Dentistry]

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भारतीय मानक

दंत उपकरण – एंगल पर तार मोड़ने के लिए
आर्थोडान्टिक्स प्लास – आकृति, आयाम एवं परीक्षण

(पहला पुनरीक्षण)

Indian Standard

DENTAL INSTRUMENTS — ORTHODONTIC
PLIERS, ANGLE WIRE BENDING — SHAPE,
DIMENSIONS AND TESTS

(*First Revision*)

UDC 615.472 : 621.881.4 : 616.314-72

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BUREAU OF INDIAN STANDARDS
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Dentistry Sectional Committee, MHD 8

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Dentistry Sectional Committee, had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first issued in 1972 and covered specification for angle wire bending dental pliers. It has been revised so as to retain the requirements in respect of shape, dimensions and specific tests only, as the common specification aspects for all types of Dental pliers are now covered in IS 12507 : 1988 'General requirements for dental pliers', which would serve the purpose of a horizontal standard for dental pliers. This standard is therefore, to be used in conjunction with IS 12507 : 1988.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

DENTAL INSTRUMENTS — ORTHODONTIC PLIERS, ANGLE WIRE BENDING — SHAPE, DIMENSIONS AND TESTS

(First Revision)

1 SCOPE

This standard specifies the shape, dimensions and specific tests for angle wire bending orthodontic pliers.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
1501 (Part 1) : 1984	Method for vickers hardness test for metallic materials : Part 1 HV 5 to HV 100 (second revision)
3642 (Part 1) : 1990	Surgical instruments—specification : Part 1 Non-cutting, articulated type instruments (second revision)

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions of the angle wire bending orthodontic pliers shall be as shown in Fig. 1.

3.2 Joints

The joint of the pliers shall be double set down screw joint in accordance with 13.2.1 of IS 3642 (Part 1) : 1990.

4 TESTS

4.1 Performance Test

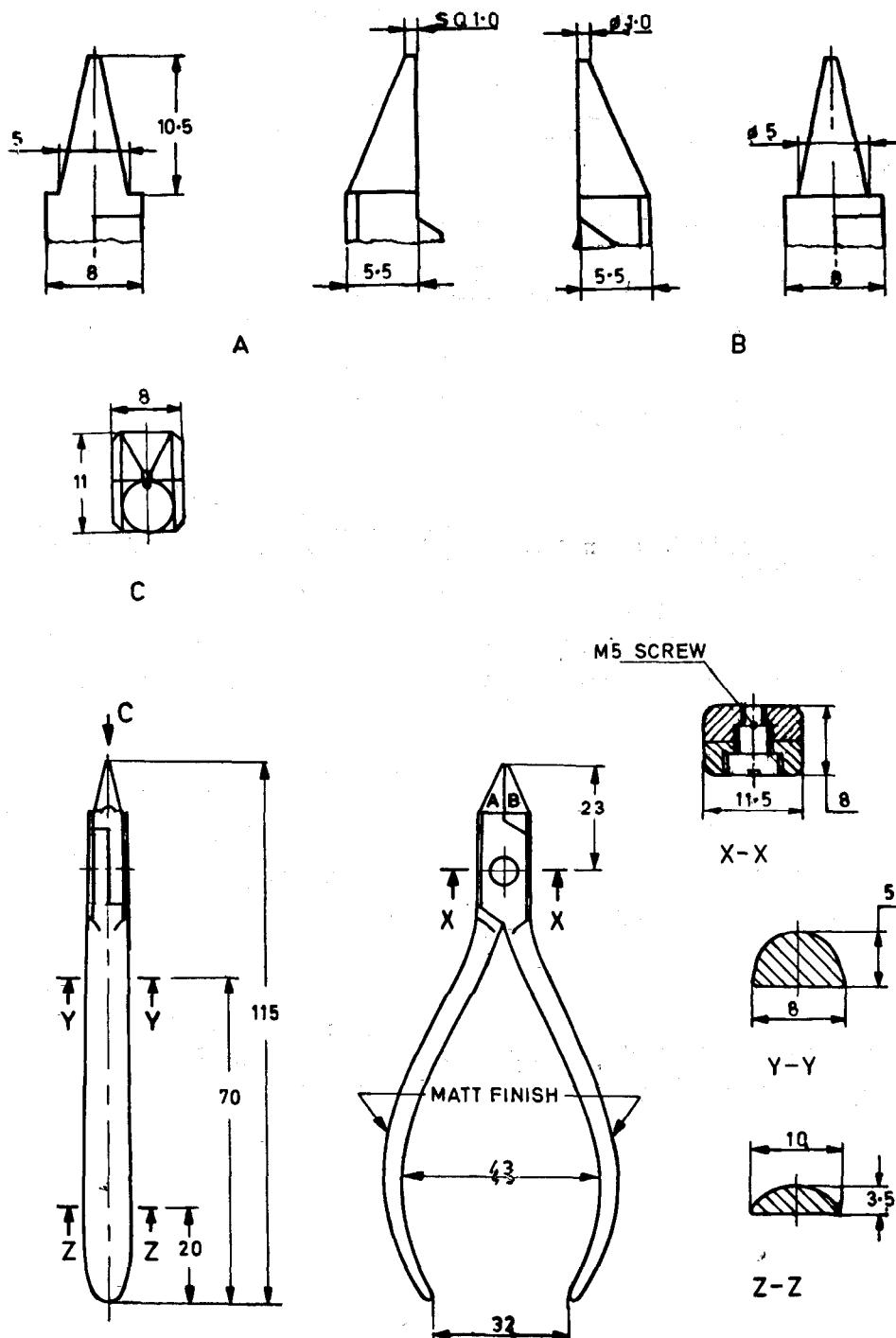
The pliers shall be used to make a complete loop of orthodontic stainless steel wire (hard drawn) of 0.63 mm dia. This shall be done six times. On completion of the test, the pliers shall show no sign of damage.

4.2 Rigidity Test

The pliers shall be made to grip a piece of 1 mm thick hardened steel bit. The bit chosen shall be such that it will not be damaged by the test. A compressive force of 20 kgf shall be applied to the pliers and allowed to act for 2 minutes in such a manner that the force acts on each handle (a total of 40 kgf on the pliers) at a distance of 40 mm from their free ends. This shall be done six times. On completion of the test, the pliers shall show no sign of damage.

4.3 Hardness Test

When tested in accordance with IS 1501 (Part 1) : 1984, the Vickers hardness of the finished pliers (excluding screw) shall be 400 to 440 HV.



All dimensions in millimetres.

FIG. 1 ANGLE WIRE BENDING ORTHODONTIC PLIERS

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